

SEQUENCE LISTING

Express Mail Label No. EL773186821US

<110> BJORCK, Lars H
RASMUSSEN, Magnus

<120> PROTEIN

<130> 100084.415US

<140>

<141>

<150> PCT/GB99/03631

<151> 1999-11-02

<150> GB 9823975.9

<151> 1998-11-02

<160> 26

<170> PatentIn Ver. 2.1

<210> 1

<211> 23

<212> PRT

<213> Streptococcus pyogenes

<400> 1

Asp Ser Pro Ile Glu Gln Pro Arg Ile Ile Pro Asn Gly Gly Thr Leu
1 5 10 15

Thr Asn Cys

<210> 2

<211> 58

<212> PRT

<213> Streptococcus pyogenes

<400> 2

Val Asp Ser Pro Ile Glu Gln Pro Arg Ile Ile Pro Asn Gly Gly Thr
1 5 10 15

Leu Thr Asn Leu Leu Gly Asn Ala Pro Glu Lys Leu Ala Leu Arg Asn
20 25 30

Glu Glu Arg Ala Ile Asp Glu Leu Lys Lys Gln Ala Ile Glu Asp Lys

35

40

45

Glu Ala Thr Thr Ala Ile Glu Ala Ala Ser
50 55

<210> 3

<211> 28

<212> PRT

<213> Streptococcus pyogenes

<400> 3

Ser Asp Ala Leu Glu Ala Leu Ala Asp Gln Thr Asp Ala Leu Gln Ser
1 5 10 15

Glu Glu Ala Ala Val Val Lys Ala Asp Asn Ala Ala
20 25

<210> 4

<211> 184

<212> PRT

<213> Streptococcus pyogenes

<400> 4

Val Asp Ser Pro Ile Glu Gln Pro Arg Ile Ile Pro Asn Gly Gly Thr
1 5 10 15

Leu Thr Asn Leu Leu Gly Asn Ala Pro Glu Lys Leu Ala Leu Arg Asn
20 25 30

Glu Glu Arg Ala Ile Asp Glu Leu Lys Lys Gln Ala Ile Glu Asp Lys
35 40 45

Glu Ala Thr Thr Ala Ile Glu Ala Ala Ser Ser Asp Ala Leu Glu Ala
50 55 60

Leu Ala Asp Gln Thr Asp Ala Leu Gln Ser Glu Glu Ala Ala Val Val
65 70 75 80

Lys Ala Asp Asn Ala Ala Ser Asp Ala Leu Glu Ala Leu Ala Asp Gln
85 90 95

Thr Asp Ala Leu Gln Ser Glu Glu Ala Glu Val Val Gln Ser Asp Asn
100 105 110

Ala Ala Ser Asp Ala Trp Glu Lys Ala Ala Thr Pro Ile Ala Leu Asp
115 120 125

Val Lys Lys Thr Lys Asp Thr Lys Pro Val Val Lys Lys Glu Glu Arg
130 135 140

Gln Asn Val Asn Thr Leu Pro Thr Thr Gly Glu Glu Ser Asn Pro Phe
145 150 155 160

Phe Thr Ala Ala Ala Leu Ala Ile Met Val Ser Thr Gly Val Leu Val
165 170 175

Val Ser Ser Lys Cys Lys Glu Asn
180

<210> 5

<211> 141

<212> PRT

<213> Streptococcus pyogenes

<400> 5

Val Asp Ser Pro Ile Glu Gln Pro Arg Ile Ile Pro Asn Gly Gly Thr
1 5 10 15

Leu Thr Asn Leu Leu Gly Asn Ala Pro Glu Lys Leu Ala Leu Arg Asn
20 25 30

Glu Glu Arg Ala Ile Asp Glu Leu Lys Lys Gln Ala Ile Glu Asp Lys
35 40 45

Glu Ala Thr Thr Ala Ile Glu Ala Ala Ser Ser Asp Ala Leu Glu Ala
50 55 60

Leu Ala Asp Gln Thr Asp Ala Leu Gln Ser Glu Glu Ala Ala Val Val
65 70 75 80

Lys Ala Asp Asn Ala Ala Ser Asp Ala Leu Glu Ala Leu Ala Asp Gln
85 90 95

Thr Asp Ala Leu Gln Ser Glu Glu Ala Glu Val Val Gln Ser Asp Asn
100 105 110

Ala Ala Ser Asp Ala Trp Glu Lys Ala Ala Thr Pro Ile Ala Leu Asp
115 120 125

Val Lys Lys Thr Lys Asp Thr Lys Pro Val Val Lys Lys
130 135 140

<210> 6
 <211> 159
 <212> PRT
 <213> Streptococcus pyogenes

<400> 6

Val Asp Ser Pro Ile Glu Gln Pro Arg Ile Ile Pro Asn Gly Gly Thr
 1 5 10 15

Leu Thr Asn Leu Leu Gly Asn Ala Pro Glu Lys Leu Ala Leu Arg Asn
 20 25 30

Glu Glu Arg Ala Ile Asp Glu Leu Lys Lys Gln Ala Ile Glu Asp Lys
 35 40 45

Glu Ala Thr Thr Ala Ile Glu Ala Ala Ser Ser Asp Ala Leu Glu Ala
 50 55 60

Leu Ala Asp Gln Thr Asp Ala Leu Gln Ser Glu Glu Ala Ala Val Val
 65 70 75 80

Lys Ala Asp Asn Ala Ala Ser Asp Ala Leu Glu Ala Leu Ala Asp Gln
 85 90 95

Thr Asp Ala Leu Gln Ser Glu Glu Ala Glu Val Val Gln Ser Asp Asn
 100 105 110

Ala Ala Ser Asp Ala Trp Glu Lys Ala Ala Thr Pro Ile Ala Leu Asp
 115 120 125

Val Lys Lys Thr Lys Asp Thr Lys Pro Val Val Lys Lys Glu Glu Arg
 130 135 140

Gln Asn Val Asn Thr Leu Pro Thr Thr Gly Glu Glu Ser Asn Pro
 145 150 155

<210> 7
 <211> 217
 <212> PRT
 <213> Streptococcus pyogenes

<400> 7

Met Gly Lys Glu Ile Lys Val Lys Cys Phe Leu Arg Arg Ser Ala Phe
 1 5 10 15

Gly Leu Val Ala Val Ser Ala Ser Val Leu Val Gly Ser Thr Val Ser
 20 25 30

Ala Val Asp Ser Pro Ile Glu Gln Pro Arg Ile Ile Pro Asn Gly Gly
 35 40 45

Thr Leu Thr Asn Leu Leu Gly Asn Ala Pro Glu Lys Leu Ala Leu Arg
 50 55 60

Asn Glu Glu Arg Ala Ile Asp Glu Leu Lys Lys Gln Ala Ile Glu Asp
 65 70 75 80

Lys Glu Ala Thr Thr Ala Ile Glu Ala Ala Ser Ser Asp Ala Leu Glu
 85 90 95

Ala Leu Ala Asp Gln Thr Asp Ala Leu Gln Ser Glu Glu Ala Ala Val
 100 105 110

Val Lys Ala Asp Asn Ala Ala Ser Asp Ala Leu Glu Ala Leu Ala Asp
 115 120 125

Gln Thr Asp Ala Leu Gln Ser Glu Glu Ala Glu Val Val Gln Ser Asp
 130 135 140

Asn Ala Ala Ser Asp Ala Trp Glu Lys Ala Ala Thr Pro Ile Ala Leu
 145 150 155 160

Asp Val Lys Lys Thr Lys Asp Thr Lys Pro Val Val Lys Lys Glu Glu
 165 170 175

Arg Gln Asn Val Asn Thr Leu Pro Thr Thr Gly Glu Glu Ser Asn Pro
 180 185 190

Phe Phe Thr Ala Ala Ala Leu Ala Ile Met Val Ser Thr Gly Val Leu
 195 200 205

Val Val Ser Ser Lys Cys Lys Glu Asn
 210 215

<210> 8

<211> 259

<212> PRT

<213> Streptococcus pyogenes

<400> 8

Ser Ala Phe Gly Leu Val Ala Val Ser Ala Ser Val Leu Val Gly Ser
 1 5 10 15

Thr Val Ser Ala Val Asp Ser Pro Ile Glu Gln Pro Arg Ile Ile Pro

20					25					30						
Asn	Gly	Gly	Thr	Leu	Thr	Asn	Leu	Leu	Gly	Asn	Ala	Pro	Glu	Lys	Leu	
35					40					45						
Ala	Leu	Arg	Asn	Glu	Glu	Arg	Ala	Ile	Asp	Glu	Leu	Lys	Lys	Gln	Ala	
50					55					60						
Ile	Glu	Asp	Lys	Glu	Ala	Thr	Thr	Ala	Ile	Glu	Ala	Ala	Ser	Ser	Asp	
65					70					75					80	
Ala	Leu	Glu	Ala	Leu	Ala	Asp	Gln	Ala	Asp	Ala	Leu	Gln	Ser	Glu	Glu	
85					90					95						
Ala	Ala	Val	Val	Gln	Ser	Asp	Asn	Ala	Ala	Ser	Asp	Ala	Leu	Glu	Ala	
100					105					110						
Leu	Ala	Asp	Gln	Thr	Asp	Ala	Leu	Gln	Ser	Glu	Glu	Ala	Ala	Val	Val	
115					120					125						
Lys	Ala	Asp	Asn	Ala	Ala	Ser	Asp	Thr	Leu	Glu	Ala	Leu	Ala	Asp	Gln	
130					135					140						
Thr	Asp	Ala	Leu	Gln	Ser	Glu	Glu	Ala	Ala	Val	Val	Lys	Ala	Asp	Asn	
145					150					155					160	
Ala	Ala	Ser	Asp	Thr	Leu	Glu	Ala	Leu	Ala	Asp	Gln	Thr	Asp	Ala	Leu	
165					170					175						
Gln	Ser	Glu	Glu	Ala	Ala	Val	Val	Lys	Ala	Asp	Asn	Ala	Ala	Ser	Asp	
180					185					190						
Thr	Leu	Glu	Ala	Leu	Ala	Asp	Gln	Thr	Asp	Ala	Leu	Gln	Ser	Glu	Glu	
195					200					205						
Ala	Glu	Val	Val	Gln	Ser	Asp	Asn	Ala	Ala	Ser	Asp	Ala	Trp	Gly	Lys	
210					215					220						
Ala	Ala	Thr	Pro	Ile	Ala	Leu	Asp	Val	Lys	Lys	Thr	Lys	Asp	Thr	Lys	
225					230					235					240	
Pro	Val	Val	Lys	Lys	Glu	Glu	Arg	Gln	Asn	Val	Asn	Thr	Leu	Pro	Thr	
245					250					255						
Thr	Gly	Glu														

<210> 9
 <211> 155
 <212> PRT
 <213> Streptococcus pyogenes

<400> 9
 Asp Ser Pro Ile Glu Gln Pro Arg Ile Ile Pro Asn Gly Gly Thr Leu
 1 5 10 15
 Ile Asn Leu Leu Gly Asn Ala Pro Glu Lys Leu Ala Leu Arg Asn Glu
 20 25 30
 Glu Arg Ala Ile Asp Glu Leu Lys Lys Gln Ala Ile Glu Asp Lys Glu
 35 40 45
 Ala Thr Thr Ala Ile Glu Ala Ala Ser Ser Asp Ala Leu Glu Ala Leu
 50 55 60
 Ala Asp Gln Thr Asp Ala Leu Gln Ser Glu Glu Ala Ala Val Val Lys
 65 70 75 80
 Ala Asp Asn Ala Ala Ser Asp Ala Leu Glu Ala Leu Ala Asp Gln Thr
 85 90 95
 Asp Ala Leu Gln Ser Glu Glu Ala Glu Val Val Gln Ser Asp Asn Ala
 100 105 110
 Ala Ser Asp Ala Trp Glu Lys Ala Ala Thr Pro Ile Ala Leu Asp Val
 115 120 125
 Lys Lys Thr Lys Asp Thr Lys Pro Val Val Lys Lys Glu Glu Arg Gln
 130 135 140
 Asn Val Asn Thr Leu Pro Thr Thr Gly Glu Glu
 145 150 155

<210> 10
 <211> 271
 <212> PRT
 <213> Streptococcus pyogenes

<400> 10
 Val Ser Ala Val Asp Ser Pro Ile Glu Gln Pro Arg Ile Ile Pro Asn
 1 5 10 15
 Gly Gly Thr Leu Thr Asn Leu Leu Gly Asn Ala Pro Glu Lys Leu Ala
 20 25 30

Leu Arg Asn Glu Glu Arg Ala Ile Asp Glu Leu Lys Lys Gln Ala Ile
 35 40 45

Glu Asp Lys Glu Ala Thr Thr Ala Ile Glu Ala Ala Ser Ser Asp Ala
 50 55 60

Leu Glu Ala Leu Ala Asp Gln Ala Asp Ala Leu Gln Ser Glu Glu Ala
 65 70 75 80

Ala Val Val Gln Ser Asp Asn Ala Ala Ser Asp Ala Leu Glu Ala Leu
 85 90 95

Ala Asp Gln Ala Asp Ala Leu Gln Ser Glu Glu Ala Ala Val Val Gln
 100 105 110

Ser Asp Asn Ala Ala Gly Asp Ala Leu Glu Ala Leu Ala Asp Gln Thr
 115 120 125

Asp Ala Leu Gln Ser Glu Glu Ala Ser Val Val Lys Ala Asp Asn Ala
 130 135 140

Ala Ser Asp Ala Leu Glu Ala Leu Ala Asp Gln Thr Asp Ala Leu Gln
 145 150 155 160

Ser Glu Glu Ala Ser Val Val Lys Ala Asp Asn Ala Ala Ser Asp Ala
 165 170 175

Leu Glu Ala Leu Ala Asp Gln Thr Asp Ala Leu Gln Ser Glu Glu Ala
 180 185 190

Ala Val Val Lys Ala Asp Asn Ala Ala Ser Asp Ala Leu Glu Ala Leu
 195 200 205

Ala Asp Gln Thr Asp Ala Leu Gln Ser Glu Glu Ala Glu Val Val Gln
 210 215 220

Ser Asp Asn Ala Ala Ser Asp Ala Trp Glu Lys Ala Ala Thr Pro Ile
 225 230 235 240

Ala Leu Asp Val Lys Lys Thr Lys Asp Thr Lys Pro Val Val Lys Lys
 245 250 255

Glu Glu Arg Gln Asn Val Asn Thr Leu Pro Thr Thr Gly Glu Glu
 260 265 270

<210> 11

<211> 167
 <212> PRT
 <213> Streptococcus pyogenes

<400> 11

Ala Ser Val Leu Val Gly Ser Thr Val Ser Ala Val Asp Ser Pro Ile
 1 5 10 15

Glu Gln Pro Arg Ile Ile Pro Asn Gly Gly Thr Leu Thr Asn Leu Leu
 20 25 30

Gly Asn Ala Pro Glu Lys Leu Ala Leu Arg Asn Glu Glu Arg Ala Ile
 35 40 45

Asp Glu Leu Lys Lys Gln Ala Ile Glu Asp Lys Glu Ala Thr Thr Ala
 50 55 60

Ile Glu Ala Ala Ser Ser Asp Ala Leu Glu Ala Leu Ala Asp Gln Thr
 65 70 75 80

Asp Ala Leu Gln Ser Glu Glu Ala Ala Val Val Lys Ala Asp Asn Ala
 85 90 95

Ala Ser Asp Ala Leu Glu Ala Leu Ala Asp Gln Thr Asp Ala Leu Gln
 100 105 110

Ser Glu Glu Ala Glu Val Val Gln Ser Asp Asn Ala Ala Ser Asp Ala
 115 120 125

Trp Glu Lys Ala Ala Thr Pro Ile Ala Leu Asp Val Lys Lys Thr Lys
 130 135 140

Asp Thr Lys Pro Val Val Lys Lys Glu Glu Arg Gln Asn Val Asn Thr
 145 150 155 160

Leu Pro Thr Thr Gly Glu Glu
 165

<210> 12
 <211> 654
 <212> DNA
 <213> Streptococcus pyogenes

<400> 12

atgggaaaaag aaataaaaagt gaaatgcttt ttgcgtagat cagcttttgg attagttgcg 60
 gtgtcagcat cagtattagt cggttcaaca gtatctgctg ttgactcacc tatcgaacag 120
 cctcgaatta ttccaaatgg cggaacctta actaatcttc ttggcaatgc tccagaaaaa 180

ctggcattac	gtaatgaaga	aagagccatt	gatgaattaa	aaaaacaagc	tattgaggat	240
aaagaagcta	cgacagctat	agaagcagca	agttcagatg	ccttagaagc	attagcggat	300
caaacagacg	ctttacaatc	agaagaagct	gcggttggtta	aagcggataa	cgctgctagt	360
gacgccttag	aagcattggc	ggatcaaaca	gacgctttac	aatcagaaga	agctgaagta	420
gttcaatcag	ataacgctgc	tagtgacgcc	tgggaaaaag	cagcaactcc	aatcgcttta	480
gatgttaaga	aaactaaaga	tacaaaaacct	gtagttaaaa	aagaagaaaag	acaaaaacggt	540
aatacccttc	ctacaactgg	tgaagagtct	aaccctattct	ttacagctgc	tgcgcttgca	600
ataatggtta	gtacaggtgt	gttagttgta	agttcaaagt	gcaaagaaaa	ttag	654

<210> 13

<211> 777

<212> DNA

<213> Streptococcus pyogenes

<400> 13

tcagcttttg	gattagttgc	ggtgtcagca	tcagtattag	tcggttcaac	agtatctgct	60
gttgactcac	ctatcgaaca	gcctcgaatt	attccaaatg	gcggaacctt	aactaatctt	120
cttggaatg	ctccagaaaa	actggcatta	cgtaatgaag	aaagggccat	tgatgaatta	180
aaaaaacaag	ctattgagga	taaagaagct	acgacagcta	tagaagcagc	aagttcagat	240
gccttagaag	cattagcggg	tcaagcagac	gctttacaat	cagaagaagc	tgcagtagtt	300
caatcagata	acgctgctag	tgacgcctta	gaagcattgg	cggatcaaac	agacgcttta	360
caatcagaag	aagctgcggt	tgttaaagcg	gataacgctg	ctagtgcac	tttagaagca	420
ttggcgatc	aaacagacgc	tttacaatca	gaagaagctg	cggttgttaa	agcggataac	480
gctgctagt	acactttaga	agcattggcg	gatcaaacag	acgctttaca	atcagaagaa	540
gctgcggttg	ttaaagcgga	taacgctgct	agtgcactt	tagaagcatt	ggcggatcaa	600
acagacgctt	tacaatcaga	agaagctgaa	gtagttcaat	cagataacgc	tgctagtgc	660
gcctggggaa	aagcagcaac	tccaatcgct	ttagatgtta	agaaaactaa	agatacaaaa	720
cctgtagtta	aaaaagaaga	aagacaaaac	gttaataccc	ttcctacaac	tggtgaa	777

<210> 14

<211> 469

<212> DNA

<213> Streptococcus pyogenes

<400> 14

gactcaccta	tcgaacagcc	tagaattatt	ccaaatggcg	gaaccttaat	taatcttctt	60
ggcaatgctc	cagaaaaact	ggcattacgt	aatgaagaaa	gagccattga	tgaattaaaa	120
aaacaagcta	ttgaggataa	ggaagctacg	acagctatag	aagcagcaag	ttcagatgcc	180
ttagaagcat	tagcggatca	aacagacgct	ttacaatcag	aagaagctgc	ggttggttaa	240
gcggataacg	ctgctagtga	cgccttagaa	gcattggcgg	atcaaacaga	cgctttacaa	300
tcagaagaag	ctgaagtagt	tcaatcagat	aacgctgcta	gtgacgcctg	ggaaaaagca	360
gcaactccaa	tcgctttaga	tgттаagaaa	actaaagata	caaaacctgt	agttaaaaaa	420
gaagaaagac	aaaacgttaa	tacccttcct	acaactggtg	aagagtaac		469

<210> 15

<211> 853
 <212> DNA
 <213> Streptococcus pyogenes

<400> 15
 gttgCGgtgt cagcatcagt attagtcggt tcaacagtat ctgctgttga ctcacctatc 60
 gaacagcctc gaattattcc aaatggcggg accttaacta atcttcttgg caatgctcca 120
 gaaaaactgg cattacgtaa tgaagaaaga gccattgatg aattaaaaaa acaagctatt 180
 gaggataaag aagctacgac agctatagaa gcagcaagtt cagatgcctt agaagcatta 240
 gcggatcaag cagacgcttt acaatcagaa gaagctgcag tagttcaatc agataacgct 300
 gctagtgcag ccttagaagc attagcggat caagcagacg ctttacaatc agaagaagct 360
 gcagtagttc aatcagataa cgctgctggt gacgccttag aagcattggc ggatcaaaca 420
 gacgctttac aatcagaaga agcttcggtt gttaaagcgg ataacgctgc tagtgacgcc 480
 ttagaagcat tggcggatca aacagacgct ttacaatcag aagaagcttc gggtgtttaa 540
 gcggataacg ctgctagtga cgccttagaa gcattggcgg atcaaacaga cgctttacaa 600
 tcagaagaag ctgCGgttgt taaagcggat aacgctgcta gtgacgcctt agaagcattg 660
 gcggatcaaa cagacgcttt acaatcagaa gaagctgaag tagttcaatc agataacgct 720
 gctagtgcag cctgggaaaa agcagcaact ccaatcgctt tagatgttaa gaaaactaaa 780
 gatacaaaac ctgtagttaa aaaagaagaa agacaaaacg ttaataccct tcctacaact 840
 ggtgaagagt aac 853

<210> 16
 <211> 504
 <212> DNA
 <213> Streptococcus pyogenes

<400> 16
 gcatcagtat tagtgggttc aacagtatct gctgtggact cacctatcga acagcctcga 60
 attattccaa atggcgggaa ctttaactaat cttcttggca atgctccaga aaaactggca 120
 ttacgtaatg aagaaaagagc cattgatgaa ttaaaaaaac aagctattga ggataaagaa 180
 gctacgacag ctatagaagc agcaagttca gatgccttag aagcattagc ggatcaaaca 240
 gacgctttac aatcagaaga agctgcggtt gttaaagcgg ataacgctgc tagtgacgcc 300
 ttagaagcat tggcggatca aacagacgct ttacaatcag aagaagctga agtagttcaa 360
 tcagataacg ctgctagtga cgcctgggaa aaagcagcaa ctccaatcgc tttagatggt 420
 aagaaaacta aagatacaaa acctgtagtt aaaaaagaag aaagacaaaa cgttaatacc 480
 cttctacaa ctggtgaaga gtaa 504

<210> 17
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 17

agcttttgga ttagttgcgg tgtc

24

<210> 18

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 18

agcttttgga ttagttgcgg tgtcagc

27

<210> 19

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 19

ttgactcacc tatcgaacag cctcg

25

<210> 20

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 20

aaaacctgta gttaaaaaag aagaaagaca aa

32

<210> 21

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 21

ccttcctaca actggtgaag ag

22

<210> 22

<211> 19

<212> PRT

<213> Streptococcus pyogenes

<400> 22

Asp Ser Pro Ile Glu Gln Pro Arg Ile Ile Pro Asn Gly Gly Thr Leu
1 5 10 15

Thr Asn Cys

<210> 23

<211> 25

<212> PRT

<213> Streptococcus pyogenes

<400> 23

Glu Lys Leu Ala Leu Arg Asn Glu Glu Arg Ala Ile Asp Glu Leu Lys
1 5 10 15

Lys Gln Ala Ile Glu Asp Lys Glu Cys
20 25

<210> 24

<211> 19

<212> PRT

<213> Streptococcus pyogenes

<400> 24

Glu Lys Leu Ala Leu Arg Asn Glu Glu Arg Ala Ile Asp Glu Leu Lys
1 5 10 15

Lys Gln Cys

<210> 25

<211> 18

<212> PRT

<213> Streptococcus pyogenes

<400> 25

Glu Glu Arg Ala Ile Asp Glu Leu Lys Lys Gln Ala Ile Glu Asp Lys
1 5 10 15

Glu Cys

<210> 26

<211> 20

<212> PRT

<213> Streptococcus pyogenes

<400> 26

Lys Lys Thr Lys Asp Thr Lys Pro Val Val Lys Lys Glu Glu Arg Gln
1 5 10 15

Asn Val Asn Cys
20